**Pre-Calculus Syllabus 2015-16**

**Teacher Contact Information**

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**About Pre-Calculus**

What is Pre-Calculus? I like to think of it as Algebra III & Trigonometry. It is the final course in preparation for a study of Calculus. It is supposed to serve as the math course that revisits, presents and reinforces the fundamental concepts & skills you need in order to be equipped to study and successfully learn Calculus. It calls upon you to remember, utilize and integrate all the math you have learned up to this point. Pre-Calculus is challenging and requires consistent hard work. It can be very interesting, cool and fun. The key to being successful and having fun is doing the daily homework, keeping up with the assignments, doing homework so you really learn the material, not doing homework just to get the daily points, and getting help as often as you need it. Attending math tutorial several times per week is not out of the ordinary in Pre-Calculus. If we work together, you will have a great year in Pre-Calculus.

**Topics**:

**Unit 1:** students study functions and their properties. Topics of study include parent functions, combinations of functions, inverses of functions, and transformations.

**Unit 2**: students study rational functions, and extend their understanding from Algebra 2.

**Unit 3**: students study exponential and logarithmic functions.

**Unit 4**: students are introduced to trigonometric and inverse functions on the unit circle

**Unit 5**: students graph trigonometric functions based on their understanding of the unit circle and function transformations.

**Unit 6**: students simplify expressions and prove identities using trigonometric functions.

**Unit 7**: students apply vectors and parametric functions to real world situations.

**Unit 8**: students explore limits and begin to study derivatives

**Textbook:**

*Algebra and Trigonometry for College Readiness,* Pearson

You are responsible for returning the text in good condition at the end of the school year. If you do not return the book at the end of the school year, you will be charged a replacement fee.

**Grading Configuration:**

Tests 35%

Quizzes 20%

Homework 15%

Participation/Behavior 15%

Classwork 15%

**Required Daily Supplies**

* The Pre-Calculus textbook assigned (lent) to you on the first day of class.
* A graphing calculator. Each student must have his/her own calculator each day. *I will not provide calculators*. Cell phones MAY NOT ever be used as calculators.
* A dedicated Pre-Calculus notebook for notes and in-class practice problems.
* A three ring binder for storing hand-outs and organizing materials for each unit.
* Pencil (traditional or mechanical) – no pens please
* Loose leaf paper for quizzes and problems to be handed in.

**Unit Tests**

The math department test retake policy: You have the option to retake one test (not quiz) per semester if you score below an 85%. You must schedule a time to meet with the me AND complete test corrections (not for credit) before a retake to demonstrate that you have made the effort to understand the concepts. Retakes must be completed within two weeks of the original test and will be taken either during a study hall or in tutorial.  I will average the two grades to determine the test grade.  This averaged grade will cap at 85%.

**Quizzes**

If you are absent on the day of a quiz, on the day you return from the absence, you are responsible for making arrangements with me to take the missed quiz. If you do not take the missed quiz within two days, you receive a zero for the missed quiz.

**Homework**

Credit will be given for homework that is completed for the day in which it is assigned to be due. Please do homework because you want to learn the material, rather than just doing it to make me think you really did it. The school’s late homework policy states that no credit will be given for late homework.

**Participation/Behavior**

You will earn a daily in-class participation grade consisting of eight points. All of the aspects listed below collectively are an indicator of your commitment to and effort in the course.

Daily Participation Includes:

* Attendance
* Arriving to class on time
* Being in dress code
* Working on the warm-up problem(s) in silence
* Having required materials with you in class (being prepared)
* Cooperation & participation, being on task, being focused, exerting effort
* Having a good attitude
* Actively listening, asking relevant questions and taking notes
* Volunteering to answer questions and do problems on the board
* Making an effort to complete your work
* Waiting until I close class before leaving
* Behaving properly and treating peers & the teacher with courtesy and respect
* Never reading texts or sending texts during class

**Lateness & Absences**

Students are expected to arrive on time and be prepared for each class meeting. Being late is disruptive to learning. Unexcused absences will result in a loss of participation points for that day. If you are absent, you will be expected to complete the in-class work assigned on the day of the absence. Upon return from an absence, it is the student’s responsibility to show the teacher the homework that was due on the day of the absence. Students are responsible for following up on missed work and missed instruction.

**Bathroom Policy**

Students will use the bathroom before arriving to class, between class periods or during break/lunch. Students will not leave the classroom during class time to use the bathroom.

**Appointment Policy**

Appointments with school Counselors, Deans, The Principal and Assistant Principals should be scheduled at times other than class time, i.e. before 8:10, during break, during lunch, during a study hall period, or after 3:15.

**Seating Policy**

I determine the student seating arrangement in the classroom based on what I deem best for all considered. You are responsible to sit in your assigned seat each day. If you have a significant or personal issue with your seat, then you should have a private conversation with me outside of class time. If you feel strongly about seat relocation, then I will do my best to accommodate you, but you may not get you exact seating preference.

**Grades Discussion Policy**

I will not discuss your grade or class progress during class time. If you want to discuss your grade on a quiz, a test, a homework assignment or a quarter, you should make an appointment to meet with me during a break, lunch or tutorial period so you and I may discuss the matter in private and not detract from class time.

**Pre-Calculus Student-Parent Policy Agreement/Signature Page**

By signing below, I, the student, acknowledge the following:

* I have read Mr. Davis’s syllabus
* I understood the expectations and policies for Mr. Davis’s math class for the 2015-2016 school year
* I agree to abide by and follow the policies, requirements and procedures stated in the syllabus
* If I need help with any material, I will attend math tutorial 3:15-3:45
* I will be responsible, respectful, and positive this year
* I will use class time for math, not socializing
* I will stay organized, focused, and keep an open mind
* I will do all assignments to the best of my ability
* I will participate in class
* I will try to learn the math presented
* I understand that this sheet is worth 20-point quiz grade, and I will receive a zero if not completely filled out and turned in by Wednesday, August 26.

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

By signing below, I, the parent or guardian, acknowledge the following:

* I have read Mr. Davis’s syllabus
* I understood the expectations and policies for Mr. Davis’s math class for the 2015-2016 school year
* I will help my student to abide by and follow the policies, requirements and procedures stated in the syllabus

Parent Name Printed Neatly: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Best Phone Number to Reach Me: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

My Email Address is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_